

This Week In PHOTONICS

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The latest machine vision news

Top Stories

\$10 Million Luminate NY Initiative Welcomes Cohort II

LIGHT MATTERS BROADCAST — New York state's Luminate NY accelerator held its Lightning Awards at the Dryden Theatre at the George Eastman House in Rochester, going from 21 chosen competing companies to 10 finalists. The optics, photonics, and imaging startups will each receive an initial investment of \$100,000 and will be a part of the initiative's second cohort, which will launch in January 2019.



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US Army Research Lab Develops New Type of Thermal Imaging Camera

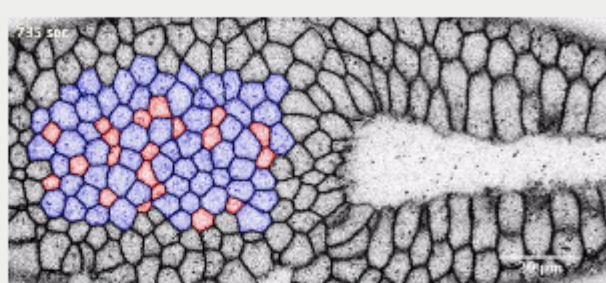
Researchers at the U.S. Army Research Laboratory (ARL), in collaboration with Polaris Sensor Technologies Inc., have developed a new type of thermal imaging camera that allows soldiers to see hidden objects that were previously undetectable.



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Optogenetics Drives Structural Changes During Embryonic Tissue Development

Scientists at the European Molecular Biology Laboratory (EMBL) used optogenetics to drive structural changes in tissue development in *Drosophila* (fruit fly) embryos. Their experimental results showed that optogenetics can be used to inhibit the naturally occurring process of invagination.



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Featured Products

Machine Vision

Photonics Media

Machine Vision is a new book for anyone designing or selecting machine vision systems, and implementing or considering the use of machine vision for a specific application. This engaging overview is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components and processes.

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pco.edge 4.2 bi: Back Illuminated sCMOS

PCO-TECH Inc.

Innovations aren't always about having that one big new idea. Unique technology also comes from evolution, combining existing and new technology. When PCO's tried and trusted pco.edge series pools forces with modern back illuminated (bi) 16 bit sCMOS sensor technology, we call the result: pco.edge 4.2 bi.

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More News

Kitt Peak Observatory to House Windows on the Universe Center

A \$4.5 million grant from the National Science Foundation (NSF) has been awarded to the Association of Universities for Research in Astronomy (AURA) for the development of a new "Windows on the Universe Center for Astronomy Outreach" facility at NSF's Kitt Peak National Observatory.



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UCL, Google Begin Quantum Computing Partnership

University College London (UCL) is joining forces with Google to launch a £5.5 million (\$7.2 million) Prosperity Partnership, which aims to harness the revolutionary power of quantum computers for applications in modeling and simulation.

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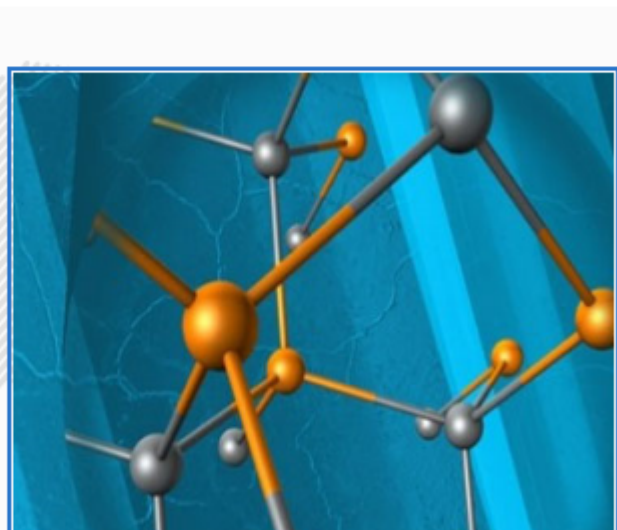
Industry Events

American Conference on Materials Research and Technology

December 6-7, 2018 - Tropicana Hotel - Las Vegas US

This materials science conference will provide an opportunity for scientists from around the world to share theoretical and experimental research on the electronic, electrochemical, ionic, magnetic, optical, and biosensing properties of solid state materials in bulk, thin film, and particulate forms. The conference will focus on synthesis, processing, characterization, structure, physical properties, and computational aspects of nano-crystalline, crystalline, amorphous, and glassy forms of ceramics, semiconductors, layered insertion compounds, low-dimensional compounds and systems, fast-ion conductors, polymers, and dielectrics. Widely acclaimed speakers and the latest methods, strategies, and most up-to-date overhauls in materials science and engineering will be featured at this meeting.

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Webinars

Materials and Methods for Smart Glass, Smart Windows, and Building Shells

Wed, Dec 5, 2018 1:00 PM - 2:00 PM EST

This webinar will introduce a cost-efficient, high-performing smart glass system for windows, windshields, roof panes, and building envelopes. The system is based on a reflective structure that switches to transmissive when an index-matching fluid is introduced. You will learn about the technology used to develop and fabricate the smart glass system, including the use of optofluidics and 3D printing. The presenter, professor Keith Goossen, will also discuss future goals and potential applications for his smart heating, cooling and lighting system.

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